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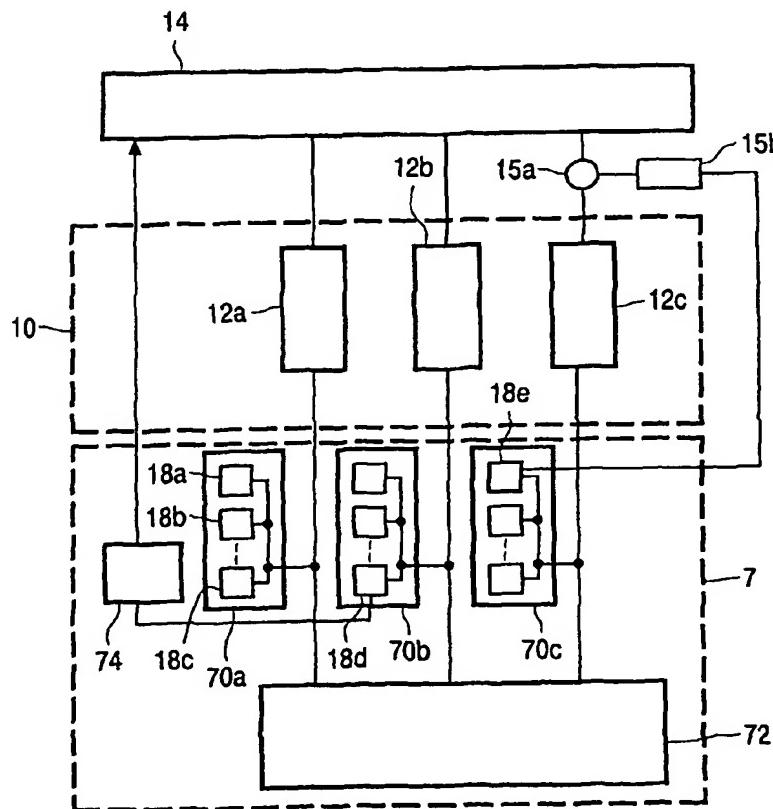
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*[Continued on next page]*

(54) Title: VLIW PROCESSOR WITH INSTRUCTION ADDRESS MODIFICATION



(57) Abstract: A program of instruction words is executed with a VLIW data processing apparatus. The apparatus comprises a plurality of functional units capable of executing a plurality of instructions from each instruction word in parallel. The instructions from each of at least some of the instruction words are fetched from respective memory units in parallel, addressed with an instruction address that is common for the functional units. Translation of the instruction address into a physical address can be modified for one or more particular ones of the memory units. Modification is controlled by modification update instructions in the program. Thus, it can be selected dependent on program execution which instructions from the memory units will be combined into the instruction word in response to the instruction address.

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MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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*MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

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A. CLASSIFICATION OF SUBJECT MATTER  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 473 420 A (HITACHI LTD) 4 March 1992 (1992-03-04) page 6, line 58 – page 7, line 19; figure 5 -----	1,11
A	EP 1 176 505 A (ST MICROELECTRONICS SA) 30 January 2002 (2002-01-30) abstract paragraph ‘0054! – paragraph ‘0061! -----	1,11
P, A	WO 03/058433 A (HEWLETT PACKARD CO) 17 July 2003 (2003-07-17) -----	
A	US 6 026 479 A (RAJE PRASAD A ET AL) 15 February 2000 (2000-02-15) -----	

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Date of the actual completion of the International search	Date of mailing of the International search report
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Moraiti, M

## INTERNATIONAL SEARCH REPORT

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EP 1176505	A	30-01-2002	FR EP US	2812417 A1 1176505 A1 2002116596 A1		01-02-2002 30-01-2002 22-08-2002
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US 6026479	A	15-02-2000		NONE		



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